

ABSTRACT

The present invention is directed to a functional molecular element adapted to change, by application of electric field, conformation of a disc shape like organic metallic complex molecule (1) which forms a columnar arrangement structure to exhibit function, wherein the structure of the organic metallic complex molecule is changed by application of electric field so that anisotropy of dielectric constant is changed. Accordingly, conductivity between measurement electrodes can be switched. As its stable value, there are three kinds of stable values or more. Thus, elements or devices to which such multi-value memory characteristic is applied can be constituted.